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APPENDIX A

INHALATION TOXICITY OF FC-143 IN RATS

Medical Research Project No. 369?

Haskell Laboratory No. 12037

CLINICAL PATHOLOGY REPORT

August 13, 1980

Blood was taken from the tails of 5 male rats in groups exposed to 0 mg/L, 0.001 mg/L, 0.008 mg/L and 0.08 mg/L PC-143 after the tenth exposure (10-day) and 14 (recovery 1), 28 (recovery 2), 42 (recovery 3) and 84 (recovery 4) days later. Examination of blood serum included the following measurements: alkaline phosphatase (AP), glutamic-oxaloacetic transaminase (GOT) and glutamic-pyruvic transaminase (GPT). Animals subjected to clinical laboratory examinations were sacrificed after each sampling interval.

STATISTICS

The data were analysed by a one-way analysis of variance and by calculating the least significant difference to compare treated groups with controls when the ratio of variances (F) indicated an effect due to treatment. Significance was judged at the 0.05 probability level. Data for 84 days (recovery 4) were not analyzed because of the small number of animals remaining in each group.

RESULTS

A summary of the clinical laboratory measurements are listed in Table I; statistical analysis in Table II. Measurements on individual animals are listed in the computer print-out attached to the report.

Elevated alkaline phosphatase activity was found for some animals in all groups exposed to FC-143 after the tenth exposure but only the groups exposed to 0.008 mg/L and 0.08 mg/L were significantly different than the controls. Two weeks (recovery 1) later the alkaline phosphatase was elevated only in the group exposed to 0.08 mg/L FC-143.

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TABLE I
CLINICAL PATHOLOGY DATA OF MICE EXPOSED TO PC-143

Clinical Chemistry	Group	Dose mg/l	Rec 1		Rec 2		Rec 3		Rec 4	
			10-Day	(14 Days)	28 Days	(42 Days)	28 Days	(42 Days)	384 Days	
AP IU	1 CM	0.000	210	214	246	205	175			
	2 H	0.001	248	222	245	235	214			
	3 H	0.006	285	227	234	221	179			
	4 H	0.060	415	295	256	169	128			
GOT IU	1 CM	0.000	29	28	22	25	27			
	2 H	0.001	30	39	34	33	44			
	3 H	0.006	31	34	26	37	37			
	4 H	0.060	32	40	32.	38	24			
GOT IU	1 CM	0.000	79	49	73	59	58			
	2 H	0.001	83	63	68	64	75			
	3 H	0.006	74	51	76	68	74			
	4 H	0.060	82	62	86	56	52			

TABLE II
SUMMARY OF STATISTICAL ANALYSIS ON RATS EXPOSED TO FC-143

	10-DAY			REC 1 (14 Days)			REC 2 (28 Days)			(REC 3 (12 Days))		
	F	0.0001	0.0006	0.06	F	0.001	0.0006	0.06	P	0.001	0.0006	0.06
AP	11.2	0	+	+	4.4	0	0	+	0.2	0	0	0
GPT	0.5	0	0	0	1.1	0	0	0	3.1	0	0	0
GOT	0.5	0	0	0	1.0	0	0	0	1.2	0	0	0

(-) Not significantly different from controls.

(+) Significantly higher when compared to controls.

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